INTERNATIONAL SEARCH REPORT

International application No.

PCT/ ES 2005/070010

CLASSIFICATION OF SUBJECT MATTER

IPC 7C12N 15/29, C12N 15/70, C12N 15/82, A01H 5/00, C12Q 1/48

10/587,372

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12	n .		
Documentation	on searched other than minimum documentation to the ex	xtent that such documents are included in t	he fields searched
EBI NUC EMBASE	ta base consulted during the international search (name of LEOTIDES DATABASE, EBI PROTEIN WPI, EPODOC		
C. DOCUM	ZENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where ap	ppropriate, of the relevant passages	Relevant to claim No.
X · A · X A	BAROJA -FERNANDEZ, E., ET AL., "Sucrose synthase catalyzes de novo production of ADPglucose linked to starch biosynthesis in heterotrophic tissues of plants. Plant Cell Physiol. 2003, 44, 500-509. Mentioned in the application. ZRENNER R. ET AL, "Evidence for the crucial role of sucrose synthase for sink strength using transgenic potato plants" Plant. J. 1995, 7, 97-107. Mentioned in the application.		31, 33-35, 38, 40- 43 1-20, 23-24, 27- 28,32, 36-37, 39
X A	POZUETA ROMERO J. ET AL., " AI specific cleavage of sucrose-reassessr FEBS Lett. 1991 Oct 21;291(2):233-7	OPG formation by the ADP- ment of sucrose synthase."	29-31 1-28, 32-43
* Special "A" docume to be of "E" earlier d "L" docume cited to special "O" docume means "P" docume	cr documents are listed in the continuation of Box C. categories of cited documents: Int defining the general state of the art which is not considered for particular relevance document but published on or after the international filing date int which may throw doubts on priority claim(s) or which is o establish the publication date of another citation or other reason (as specified) ent referring to an oral disclosure, use, exhibition or other and published prior to the international filing date but later than actual completion of the international search	"X" document of particular relevance; the considered novel or cannot be consistent when the document is taken along the considered to involve an inventive combined with one or more other such that the considered to involve an inventive combined with one or more other such that the considered in the considered to involve an inventive combined with one or more other such that the considered in the considere	lication but cited to understand the invention the invention cannot be sidered to involve an inventive one claimed invention cannot be e step when the document is the documents, such combination the art the family carch report
Name and r	nailing address of the ISA/ SPTO	Authorized officer Telephone No.	.05)

· INTERNATIONAL SEARCH REPORT

International application No.

PCT/ES 2005/070010

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A	CHOUREY PS ET AL., "Genetic evidence that the two isozymes of sucrose synthase present in developing maize endosperm are critical, one for cell wall integrity and theother for starch biosynthesis". Mol Gen Genet. 1998 Jul;259(1):88-96.	23-24
A	SALANOUBAT, M., ET AL., "Molecular cloning and sequencing of sucrose synthase cDNA from potato (Solanum tuberosum L.): preliminary characterization of sucrose synthase mRNA distribution". Gene 1987, 60:47-56	1-43
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A	WO 9428146 A2 (HOECHST SCHERING AGREVO GMBH) 08.12.1994	1-43
A	WO 9910511 A1 (FORSCHUNGSZENTRUM JUELICH GMBH) 04.03.1999	29-33
x	WO 9803637 A1 (ARCH DEVELOPMENT CORP.) 29.01.1998 mentioned in the application.	34, 38
x	WO 02067662 A1 (PIONEER HI-BRED INTERNATIONAL INC.) 06.09.2002 mentioned in the application.	34,38
x	WO 0245485 A1 (COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARC ORGANIZATION) 13.01.2002 mentioned in the application.	34,38
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Form PCT/ISA/2.10 (continuation of second sheet) (July 1992)

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Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This inte	mational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Вох П	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	emational Searching Authority found multiple inventions in this international application, as follows:
Invent	tion I: Claims 1 to 43 insofar as they refer to the recombinant sucrose synthases SSX and SS5, and to the use of an enzyme product.
Inven	tion II: Claims 29 and 34 and their dependent claims, insofar as they refer to non-recombinant sucrose synthase.
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. X	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

'INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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